

WHAT IS CLAIMED IS:

1. (Original) A method to temperature compensate data of a fluid while in use that comprises:

- a) collecting data when fluid temperature changes from a first threshold temperature to at least a second threshold temperature at least at a threshold rate;
- b) determining the temperature dependence of the collected data; and,
- c) using the determined data-temperature-dependence for temperature compensating data of the fluid's condition.

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Original) The method of claim 1 wherein the method further comprises determining at least one of the following selected from the group consisting of: threshold temperature, threshold rate or combinations thereof.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Currently Amended) The method of claim 14 wherein a property of the determined data-temperature-dependence not being within at least one property limit is selected from the group consisting of ~~comprising~~: the determined data-temperature-dependence alone; a function of the determined data-temperature-dependence and the current data-temperature-dependence and combinations thereof.

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)